

CLAIMS

What is claimed is:

1. A computer chassis comprising:
a chassis base;
a first drawer removably engaged with said chassis base;
an interface board mounted to said first drawer so as to couple to a first electrical component when the first electrical component is located in the first drawer;
a second drawer removably engaged with said chassis base; and
a connector mounted to said second drawer so as to couple to a second electrical component when the second electrical component is located in the second drawer, wherein said connector engages said interface board so as to couple the first electrical component to the second electrical component when the first and second electrical components are located in the respective first and second drawers.
2. The computer chassis of claim 1 wherein said first and second drawers slidably engage said chassis base.
3. The computer chassis of claim 1 further comprising a latch operable to secure said front drawer to said chassis base, wherein said latch is hand-operable.
4. The computer chassis of claim 1 wherein said front drawer further comprises a power supply bay, a hard drive bay, and a media module bay.
5. The computer chassis of claim 1 wherein said rear drawer further comprises an expansion card bay, a processor bay, a cooling system bay, and a memory bay.
6. The computer chassis of claim 1 further comprising a motherboard mounted to said rear drawer and coupled to said connector.

7. The computer chassis of claim 6 wherein said motherboard is directly interconnected to said connector.

8. The computer chassis of claim 7 wherein the second electrical component is directly connected to said motherboard when the second electrical component is located in the second drawer.

9. The computer chassis of claim 1 wherein the first electrical component is directly connected to said interface board when the first electrical component is located in the first drawer.

10. A computer comprising:
a first electrical component;
a first drawer operable to receive said first electronic component;
a midplane board mounted to said first drawer and coupled to said first electrical component;
a second electrical component;
a second drawer operable to receive said second electrical component;
a connector mounted to said second drawer and coupled to said second electrical component; and
a chassis base supporting said first drawer and said second drawer such that said connector is coupled to said midplane board.

11. The computer of claim 10 wherein said first electrical component is horizontally received in said first drawer.

12. The computer of claim 11 wherein said midplane board is vertically mounted to said first drawer.

13. The computer of claim 12 wherein said second electrical component is vertically received by said second drawer.

14. The computer of claim 10 further comprising a motherboard horizontally mounted to said second drawer and coupled to said connector.
15. The computer of claim 14 wherein said first electrical component is a power supply module.
16. The computer of claim 15 wherein said second electrical component is a processor module.
17. The computer of claim 16 further comprising a memory module mounted to said second drawer and coupled to said motherboard.
18. The computer of claim 10 wherein said first electrical component is directly connected to said midplane board.
19. The computer of claim 10 wherein said connector is directly connected to said midplane board.
20. An electrical assembly comprising:
 - means for removably mounting an interface board in a chassis;
 - means for coupling a first electrical component to one side of the interface board; and
 - means for coupling a second electrical component to the other side of the interface board.
21. The electrical assembly of claim 20 wherein said first electrical component comprises a power supply module.
22. The electrical assembly of claim 21 wherein said second electrical component comprises a processor module and a memory module.

23. The electrical assembly of claim 20 wherein the interface board is vertically mounted in the chassis.
24. The electrical assembly of claim 23 wherein the means for coupling the electrical components to the interface board slidably engage.
25. A method for constructing a computer comprising:
attaching a midplane board to a first drawer;
mounting a first electrical component in the first drawer so as to be coupled to the midplane board;
mounting a second electrical component to a second drawer, wherein the second electrical component is coupled to a connector;
installing the first drawer into a chassis base; and
installing the second drawer into the chassis base such that the connector is coupled to the midplane board.
26. The method of claim 25 wherein the midplane board is vertically attached to the first drawer.
27. The method of claim 26 wherein the first electrical component is mounted by sliding horizontally into the first drawer.
28. The method of claim 27 wherein the second electrical component is mounted by sliding vertically into the second drawer.
29. The method of claim 28 wherein the drawers are installed by sliding horizontally into the chassis base.
30. The method of claim 25 wherein the first electrical component and the connector directly connect to the midplane board.